14. 07. 1998

Claims

1. A vaccine comprising an antigen and a fatty acid or fatty acid peptide carrier compound which are directly or indirectly linked by a thioester or a disulphide bond that is labile and dissociates under certain physiological conditions.

2 A vaccine according to claim 1 in which said antigen dissociates from said carrier compound after the vaccine or preparation has been administered.

A vaccine according to claim 1 or 2 in which said 10 antigen is a protein, a polypeptide, a synthetic peptide, a carbohydrate, or a hapten.

A vaccine according to claim 3 in which the antigen is a synthetic peptide.

A vaccine according to any one of claims 1 - 4 in which the fatty acid is palmitic acid.

which the fatty acid is paimitic acid.

A vaccine according to claim 4 or 5 in which the synthetic peptide essentially consists of the amino acid sequence /EHWSYGLRPGQHWSYGLRPG.

A vaccine according to claim 4 or 5 in which the synthetic peptide essentially consists of the amino acid sequence SDGAVQPDGGQPAVRNERATG.

A vaccine according to claim 4 or 5 in which the synthetic peptide essentially consists of the amino acid sequence RAISSWKQRNRWEWPRD.

250-9 A vaccine according to any one of claims 1-4 in which the antigen is a peptide and the carrier compound is another copy of said peptide coupled to a fatty acid.

10 A vaccine according to claim 9 in which the carrier compound is an N-palmitoylated peptide.

30 11 A vaccine according to claim 9 or 10 in which the peptide essentially consists of the amino acid sequence SDGAVQPDGGQPAVRNERATG.

Suns DI

SUP

20 00/0/

Sylva

AMENDED SHEET
IPEA/EP

A vaccine preparation according to any of claims 1—11 harmaceutically acceptable compound or adjuvant.

A composition comprising a synthetic peptide linked with a thioester bond to a fatty acid.

A composition according to claim 13 wherein the fatty acid is palmitic acid.

15 A composition according to claim 13 or 14 wherein the peptide is selected from the group consisting of /EHWSYGLRPGQHWSYGLRPG, SDGAVQPDGGQPAVRNERATG and RAISSWKQRNRWEWPRD.

A composition comprising a synthetic peptide linked with a disulfide bond to a carrier compound comprising a fatty acid linked to another copy of said synthetic peptide.

17 A composition according to claim 16 wherein the fatty acid is palmitic acid.

A composition according to claim 16 or 17 wherein the peptide is selected from the group consisting of /EHWSYGLRPGQHWSYGLRPG, SDGAVQPDGGQPAVRNERATG and RAISSWKQRNRWEWPRD.

A method for producing an immunogenic preparation comprising linking a synthetic peptide with a fatty acid or fatty acid peptide carrier compound via a thioester or disalphide bond that is labile and dissociates under physiological conditions.

20 A method according to slaim 19 wherein the fatty acid is palmitic acid.

A method according to claim 19 or 20 wherein the peptide is selected from the group consisting of /EHWSYGLRPGQHWSYGLRPG SDGAVQPDGGQPAVRNERATG and RAISSWKQRNRWEWPRD.

An immunogenic preparation obtainable by a method according to any of plaims 19-21.

Claim 19

79214015 .

Sub DLD 25

AMENDED SHEET IPEA/EP

A vaccine comprising an immunogenic preparation according to claim 20 together with pharmaceutically acceptable compound of adjuvant.